

From: → <bill.eisma@power.alstom.com>
To: <jim-n@ipsc.com>
Date: 1/28/02 1:57PM
Subject: Delta 1 + 2 Performance Testing

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(804) 763-3718

James,

During a visit to your plant last December, our performance test engineer, Mr. Mike Knibb, discussed the performance testing of the retrofitted units with your engineer Mr. Aaron Nissen. Based upon these discussions a typical test procedure used at the Xcel Energy Sherco plant was submitted and we offered to work out a quote for doing the test based upon the submitted procedure.

The prices for providing a Delta unit specific procedure including uncertainty analysis, the required data gathering equipment, testing and evaluation of the test data and production of the preliminary and final performance test report are:

Unit 2 : \$27,230.00 Unit 1: \$ 25,560.00

We hope that you are interested in these services and look forward to your response.

Sincerely,

Bill Eisma

→ Richmond,

#(804) 763-7715

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CC: <Phong-D@IPSC.com>

IP7010638

1 612 330 6712 ^{Office} Minn

1 763 261 3527 Station

No other major issues to

All day Wed

1/2 Thurs

Cell Phone #

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Tues 9.00

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Crystal River

Charles Snipes - Prj Mgr

Bradley J. Pratt - PP&L Prj Mgr

Miller Station

Joe Tyner Prj Mgr

Ron Elsner - Main ^{office} ~~1112~~

Tim Murray

TECHNICAL DESCRIPTION

(Figure 11). These retrofits employed the same type of 3D fixed blading proposed for the Intermountain HP turbine retrofit.

Table 1 lists all the turbine retrofit and rehabilitation projects completed successfully by ALSTOM Power currently in manufacture). Where relevant, this table records the performance improvements achieved in each case.

4.7 Utility Contacts

We have, of course, a great deal of retrofitting experience, all of which in certain respects can be related to this proposal for Intermountain Units 1 & 2. We are therefore providing the following contacts: -

1. San Onofre, (2 x 1200MW) California, USA. (nuclear)

This project, for 6 "Optiflow" LP retrofit cylinders, was awarded to ALSTOM in August 1996.

Contact: Russ Chetwynd
Station Technical
San Onofre Nuclear Generating Station
Southern California Edison
PO Box 128
San Clemente, California, 92672

Phone: 714 368 9703
Fax: 714 368 6249
Email: chetwyri@songs.sce.com

2. Montour 1 & 2 and Brunner Island 3 (3 x 750MW), PA, USA, (fossil)

HP retrofit project awarded on these General Electric turbines by Pennsylvania Power and Light Company in 1999, 1 unit now installed. 2nd unit to be installed Fall 2000.

Contacts: Bradley J Piatt
Supervisor Machinery Services
Pennsylvania Power and Light,
2 N. Ninth St. (GENNS),
Allentown, PA, 18101-1179

Phone: 610 774 5664
Fax: 610 774 5623
Email: bjpiatt@papl.com

TECHNICAL DESCRIPTION

3. Marshall 3 & 4 (2 x 700MW), NC, USA, (fossil)

HP-IP retrofit project awarded on these General Electric turbines by Duke Power Co. in 1998, 1 unit now installed, 2nd unit to be installed Spring 2001.

Contacts: Tim Huffman
Project Manager
Duke Power Company,
526 S. Church Street,
Charlotte, NC 28201-1006

Phone: 704 382 5185
Fax: 704 382 9769
Email: tlhuffma@duke-energy.com

4. Bellews Creek (1 x 1133MW), NC, USA (fossil)

HP and IP retrofit project awarded on this Westinghouse turbines by Duke Power Co. in 1998, unit installed Spring 2000.

Contact: Tim Huffman
Project Manager
Duke Power Company,
526 S. Church Street,
Charlotte, NC 28201-1006

Phone: 704 382 5185
Fax: 704 382 9769
Email: tlhuffma@duke-energy.com

TECHNICAL DESCRIPTION

5. Crystal River (2 x 700MW), FL, USA (fossil)

HP retrofit project awarded on these General Electric turbines by Florida Power Company in 1998, both units now installed.

Contacts:	Charles Snipes Project Manager	William L Golden Senior Materials & Contracts Agent
	Crystal River 4 & 5 15760 West Power Line Street Crystal River Florida 34428-6708 USA	One Power Plaza, 263 – 13th Avenue South, St Petersburg, Florida 33701 USA
Phone:	352 563 4409	727 826 4156
Fax:	352 563 4497	
Email:	william.l.golden@fpc.com	charles.snipes@fpc.com

6. Hinkley Point 'B', Heysham, and Hartlepool (5 x 660MW), UK (nuclear)

HP and IP retrofits on these Advanced Gas Cooled Reactor fired units have provided some of ALSTOM's highest HP cylinder efficiency results.

Contact:	George Jenkins Executive Director – Operations Nuclear Electric Ltd Barnett Way Barnwood Gloucester, GL4 7RS United Kingdom
Phone:	Int + 44 1452 65 37 77
Fax:	Int + 44 1452 65 40 48

TECHNICAL DESCRIPTION

7. Miller Steam Plant (4 x 660MW), AL, USA (Fossil)

HP retrofit project awarded on these General Electric turbines by Alabama Power Company in August 1996, 3 units now installed. 4th unit to be installed 2001.

Contact: Joe Tyner
Alabama Power Company
600 North 18th Street,
PO Box 2641,
Birmingham,
Alabama 35291
USA
Phone: 205 257 1528
Fax: 205 257 3246
Email: jdyner@southern.com